



## **Hands-On Programming with R 2014-06-13**

learn how to program by diving into the r language and then use your newfound skills to solve practical data science problems with this book you ll learn how to load data assemble and disassemble data objects navigate r s environment system write your own functions and use all of r s programming tools rstudio master instructor garrett grolemund not only teaches you how to program but also shows you how to get more from r than just visualizing and modeling data you ll gain valuable programming skills and support your work as a data scientist at the same time work hands on with three practical data analysis projects based on casino games store retrieve and change data values in your computer s memory write programs and simulations that outperform those written by typical r users use r programming tools such as if else statements for loops and s3 classes learn how to write lightning fast vectorized r code take advantage of r s package system and debugging tools practice and apply r programming concepts as you learn them

## **Learn R Programming in 24 Hours 2020-10-31**

r is a programming language developed is widely used for statistical and graphical analysis it can execute advance machine learning algorithms including earning algorithm linear regression time series statistical inference r programming language is used by fortune 500 companies and tech bellwethers like uber google airbnb facebook apple r provides a data scientist tools and libraries dplyr to perform the 3 steps of analysis 1 extract 2 transform cleanse 3 analyze table of contents chapter 1 what is r programming language introduction basics chapter 2 how to download install r rstudio anaconda on mac or windows chapter 3 r data types arithmetic logical operators with example chapter 4 r matrix tutorial create print add column slice chapter 5 factor in r categorical continuous variables chapter 6 r data frame create append select subset chapter 7 list in r create select elements with example chapter 8 r sort a data frame using order chapter 9 r dplyr tutorial data manipulation join cleaning spread chapter 10 merge data frames in r full and partial match chapter 11 functions in r programming with example chapter 12 if else else if statement in r chapter 13 for loop in r with examples for list and matrix chapter 14 while loop in r with example chapter 15 apply lapply sapply tapply function in r with examples chapter 16 import data into r read csv excel spss stata sas files chapter 17 how to replace missing values na in r na omit na rm chapter 18 r exporting data to excel csv sas stata text file chapter 19 correlation in r pearson spearman with matrix example chapter 20 r aggregate function summarise group by example chapter 21 r select filter arrange pipeline with example chapter 22 scatter plot in r using ggplot2 with example chapter 23 how to make boxplot in r with example chapter 24 bar chart histogram in r with example chapter 25 t test in r one sample and paired with example chapter 26 r anova tutorial one way two way with examples chapter 27 r simple multiple linear and stepwise regression with example chapter 28 decision tree in r with example chapter 29 r random forest tutorial with example chapter 30 generalized linear model glm in r with example chapter 31 k means clustering in r with example chapter 32 r vs python what s the difference chapter 33 sas vs r what s the difference

## **A First Course in Statistical Programming with R 2021-05-20**

get started computing with data learn general principles while learning r now including the tidyverse

## **Software for Data Analysis 2008-06-14**

john chambers turns his attention to r the enormously successful open source system based on the s language his book guides the reader through programming with r beginning with simple interactive use and progressing by gradual stages starting with simple functions more advanced programming techniques can be added as needed allowing users to grow into software contributors benefiting their careers and the community r packages provide a powerful mechanism for contributions to be organized and communicated this is the only advanced programming book on r written by the author of the s language from which r evolved

## **R Programming By Example 2017-12-22**

this step by step guide demonstrates how to build simple to advanced applications through examples in r using modern tools about this book get a firm hold on the fundamentals of r through practical hands on examples get started with good r programming fundamentals for data science exploit the different libraries of r to build interesting applications in r who this book is for this books is for aspiring data science professionals or statisticians who would like to learn about the r programming language in a practical manner basic programming knowledge is assumed what you will learn discover techniques to leverage r s features and work with packages perform a descriptive analysis and work with statistical models using r work efficiently with objects without using loops create diverse visualizations to gain better understanding of the data understand ways to produce good visualizations and create reports for the results read and write data from relational databases and rest apis both packaged and unpackaged improve performance by writing better code delegating that code to a more efficient programming language or making it parallel in detail r is a high level statistical language and is widely used among statisticians and data miners to develop analytical applications often data analysis people with great analytical skills lack solid programming knowledge and are unfamiliar with the correct ways to use r based on the version 3 4 this book will help you develop strong fundamentals when working with r by taking you through a series of full representative examples giving you a holistic view of r we begin with the basic installation and configuration of the r environment as you progress through the exercises you ll become thoroughly acquainted with r

s features and its packages with this book you will learn about the basic concepts of r programming work efficiently with graphs create publication ready and interactive 3d graphs and gain a better understanding of the data at hand the detailed step by step instructions will enable you to get a clean set of data produce good visualizations and create reports for the results it also teaches you various methods to perform code profiling and performance enhancement with good programming practices delegation and parallelization by the end of this book you will know how to efficiently work with data create quality visualizations and reports and develop code that is modular expressive and maintainable style and approach this is an easy to understand guide filled with real world examples giving you a holistic view of r and practical hands on experience

## **The Book of R 2016-07-16**

the book of r is a comprehensive beginner friendly guide to r the world s most popular programming language for statistical analysis even if you have no programming experience and little more than a grounding in the basics of mathematics you ll find everything you need to begin using r effectively for statistical analysis you ll start with the basics like how to handle data and write simple programs before moving on to more advanced topics like producing statistical summaries of your data and performing statistical tests and modeling you ll even learn how to create impressive data visualizations with r s basic graphics tools and contributed packages like ggplot2 and ggvis as well as interactive 3d visualizations using the rgl package dozens of hands on exercises with downloadable solutions take you from theory to practice as you learn the fundamentals of programming in r including how to write data frames create functions and use variables statements and loops statistical concepts like exploratory data analysis probabilities hypothesis tests and regression modeling and how to execute them in r how to access r s thousands of functions libraries and data sets how to draw valid and useful conclusions from your data how to create publication quality graphics of your results combining detailed explanations with real world examples and exercises this book will provide you with a solid understanding of both statistics and the depth of r s functionality make the book of r your doorway into the growing world of data analysis

## **A First Course in Statistical Programming with R 2007-12-13**

this is the only introduction you ll need to start programming in r the open source language that is free to download and lets you adapt the source code for your own requirements co written by one of the r core development team and by an established r author this book comes with real r code that complies with the standards of the language unlike other introductory books on the ground breaking r system this book emphasizes programming including the principles that apply to most computing languages and techniques used to develop more complex projects learning the language is made easier by the frequent exercises and end of chapter reviews that help you progress confidently through the book solutions datasets and any errata will be available from the book s web site the many examples all from real applications make it particularly useful for anyone working in practical data analysis

## **R Programming for Beginners 2019-11-22**

master the programming skills you need to turn raw unfiltered data into deep insights and get ready for a data science and analytics career with this definitive guide to r programming for beginners do you want to get started learning how to program but don t know where to begin are you interested in moving beyond excel sheets and learning one of the most powerful programming language used in cutting edge research such as machine learning if you answered yes to any of these questions then this book might just be what you need r can be a royal pain in the neck sometimes even seasoned programmers and data analysts still struggle with it but it doesn t have to be you in this guide you re going to learn everything you need to do heavy data wrangling in r with graded exercises and examples at the end to help you reinforce what you ve learned here s a preview of what you re going to discover in r programming for beginners step by step instructions to help you set up and install the r environment with photos how to properly execute r scripts with your favorite code editor everything you need to know about the r syntax statements blocks comments and keywords steps to help you write your very first r script and begin your programming journey the 6 data types supported by the r programming language how to name variables and assign values to them steps to help you write well defined user functions effectively how to control program flow with decision making control structures and loops how to visualize data with r programming and lots more whether you re completely new to programming and have never written a single line of code before or you re an intermediate or experienced r programmer looking to brush up on the basics this book has everything you need to master r completely scroll to the top of the page and click the add to cart button to get started today

## **R Programming for Beginners 2016-12-01**

this book is an exploration of the r programming language it begins by explaining to you the main uses of the r programming language and where it is normally applied you are then guided on how to setup the programming environment both on windows and linux the various data types available in r are discussed and you will learn how to define and use all of these variables which are of great utility in any programming language are explored thus you will learn how to define variables in r the r programming language supports decision making the various decision making statements which are supported in this language are examined loops are also of great importance when we are drawing graphs and charts in r they specify a section of code which is to be executed a number of times these have been explored in this book in detail functions which are good for the grouping of code are explored along with order strings vectors and lists which are the data types of great importance in r matrices represent a data type which can be used for storing data in a number of dimensions this book explores the

use of matrices in r thus you will know how to work with these arrays which are more advanced than matrices have also been discussed the book also guides you on how to work with factors and data frames the following topics are discussed in this book a brief overview of r programming setting up the environment data types in r variables decision making loops functions strings vectors lists matrices arrays factors data frames

## **Advanced R 2015-09-15**

an essential reference for intermediate and advanced r programmers advanced r presents useful tools and techniques for attacking many types of r programming problems helping you avoid mistakes and dead ends with more than ten years of experience programming in r the author illustrates the elegance beauty and flexibility at the heart of r the book develops the necessary skills to produce quality code that can be used in a variety of circumstances you will learn the fundamentals of r including standard data types and functions functional programming as a useful framework for solving wide classes of problems the positives and negatives of metaprogramming how to write fast memory efficient code this book not only helps current r users become r programmers but also shows existing programmers what s special about r intermediate r programmers can dive deeper into r and learn new strategies for solving diverse problems while programmers from other languages can learn the details of r and understand why r works the way it does

## **Efficient R Programming 2016-12-08**

there are many excellent r resources for visualization data science and package development hundreds of scattered vignettes web pages and forums explain how to use r in particular domains but little has been written on how to simply make r work effectively until now this hands on book teaches novices and experienced r users how to write efficient r code drawing on years of experience teaching r courses authors colin gillespie and robin lovelace provide practical advice on a range of topics from optimizing the set up of rstudio to leveraging c that make this book a useful addition to any r user s bookshelf academics business users and programmers from a wide range of backgrounds stand to benefit from the guidance in efficient r programming get advice for setting up an r programming environment explore general programming concepts and r coding techniques understand the ingredients of an efficient r workflow learn how to efficiently read and write data in r dive into data carpentry the vital skill for cleaning raw data optimize your code with profiling standard tricks and other methods determine your hardware capabilities for handling r computation maximize the benefits of collaborative r programming accelerate your transition from r hacker to r programmer

## **An Introduction to R 2002**

provides a tutorial guide to gnu r a software environment for statistical computing and graphics

## **Hands-on Programming with R 2014**

learn how to program by diving into the r language and then use your newfound skills to solve practical data science problems with this book you ll learn how to load data assemble and disassemble data objects navigate r s environment system write your own functions and use all of r s programming tools

## **R Programming 2020-06**

2020 second edition updated version get your copy why learn r what are the reasons to learn r for data science in this small textbook recommended for absolute beginners the author tried to answer these types of questions after reading this guide maybe in one or two days you will learn the basics of r programming and its utility for each data scientist indeed r is a programming language and software environment for statistical analysis graphics representation and reporting if you are trying to understand the r programming language as a beginner this short book will give you enough understanding of almost all the concepts of the r language the author will guide you through examples how to program in r and how to use r for effective data analysis get your copy now book objectives this book is about r programming the following are the objectives of the author to familiarize you with the basics of r programming language to help you understand the various fields where r can be applied and its use cases in each field to equip you with r programming skills both beginner and advanced skills to introduce you to programming for data analysis to introduce you to r programming for machine learning to help you understand and appreciate the power of r in statistical computing data analysis and scientific research who this book is for anybody who is a complete beginner to r programming anybody in need of advancing their r programming skills professionals in computer programming professors lecturers or tutors who are looking to find better ways to explain r programming to their students in the simplest and easiest way students and academicians especially those focusing on r data analysis machine learning computer science and databases development requirements the author expects you to have a computer installed with an operating system such as linux windows or mac os x what is inside the book r basics r data types r variables and constants r operators decision making in r r loops r functions r classes and objects r for data science r for machine learning from the back cover r programming language is one of the most popular languages used by statisticians data analysts researchers to retrieve clean analyze visualize and present data this is a comprehensive book on how to get started with r programming why you should learn it and how you can learn it daniel bell begins by introducing the readers to the foundations of

the r programming language the aim is to help you understand how the r interpreter works the origin of the name r how to set up the r programming environment etc the author has discussed the process of installing r on windows linux and mac os moreover the author has explored the basics of r programming including writing comments using the r console creating r script files etc the various features provided by r have been discussed in depth including data types variables loops decision making functions operators classes and objects etc the author has also discussed r for data science and r for machine learning the book has been organized into chapters with each chapter having many sub chapters r code scripts have been provided alongside thorough explanations of the code and images showing the expected output upon the execution of every script get your copy

## ***R Programming 2018-04-14***

r programming learn the basics of r programming in one week why and how should you use r if you have ever asked these questions then this book was written for you r programming has plenty of unique features making it different from other programming languages this guide shows you how to talk to r and how the r engine reads the code you have written learn everything you need to understand how to leverage this extremely versatile toolbox used by a widespread community of academicians practitioners programmers and users in r programming beginner s guide on r programming by the it starter series this short guidebook gives you all the necessary basics it starter series breaks down terminology that may otherwise be confusing offers systematically simple to follow directions and breaks down the confusion of just getting started into easy to handle actionable instructions this free program processes more than just statistics and has broken into the world of data processing graphic visualization and other types of analysis with it starter series easy to follow guidance you will learn the history advantages and unique features of r programming why r is unlike c or java how to work with a code editor and issue a simple command how to use r to do simple math use vectors store and calculate values how to use the full power of functions how to find install load and unload packages and so much more by the end of r programming learn the basics of r programming in one week you will be able to contrast your own mathematical operations and use those to work on large amounts of data this guide is a great resource for anyone looking to understand and use r programming you will learn basic functions that will start you on your journey to creating more complicated functions keep this guide handy to refer to again and again along with your analysis journey this guide for beginners covers the basics of what r programming is and how you can use it to your advantage get your copy today

## ***R Programming 2023-05-06***

r is an open source statistical environment and programming language that has grown in popularity for data management and analysis in various industries r programming teaches you all the r you ll ever need in a rapid and painless manner this accessible tutorial taught you your way around a list with no previous programming expertise and loads of practical examples step by step exercises and sample code this book covers the most significant modeling and prediction methods as well as their applications learn how to use r to transform raw data into knowledge understanding and insight this book introduces you to r rstudio and the tidyverse a set of r tools that work together to make data research simple fluent and enjoyable this book is meant to get you practicing data science as fast as possible even if you have no prior programming expertise you ll get a comprehensive grasp of the data science cycle and the fundamental tools you ll need to handle the details r is becoming more well known by the day as large institutions embrace it as a standard its popularity stems partly from the fact that it is a free tool replacing expensive statistical software products that may take an undue amount of time to master furthermore r allows a user to do complicated statistical analyses with only a few keystrokes making advanced studies accessible and clear to a broad audience learn how to import data construct and dismantle data objects traverse r s environment system develop your own functions and utilize all of r s programming tools with this book this book will not only teach you how to program but also how to use r for more than simply displaying and analyzing data most of the chapters are written for you to understand statistical data so if you are a student this book can guarantee to teach you some basic statistics that will help you get good grades the first two chapters are based on beginner s level of r programming mainly teaching how to successfully install and run the program on your device and introducing rstudio to you you will get complete guidance chapters three and four will teach you some basic and simple lines of code and how you can successfully execute them on your device there will be some simple maths included after that you will start chapter five which is completely based on statistics chapters six and seven will take your attention to more it if you already know basic html you will get more information in these chapters as they include similar topics as html finally you arrived at chapters eight nine and ten which will enable you to create and run your data these chapters will complete your journey by allowing you to understand how data frames work and how you can work with different types of data you will also see how you can install premade data packages that can be helpful when you want to practice more after that you will know how to visualize your data in different forms of charts graphs etc the book is highly informative with lots of code and also i added tons of pictures of how the code will look in r studio following the book you will be able to start rstudio and use the program smoothly

## ***The Art of R Programming 2011-10-11***

r is the world s most popular language for developing statistical software archaeologists use it to track the spread of ancient civilizations drug companies use it to discover which medications are safe and effective and actuaries use it to assess financial risks and keep economies running smoothly the art of r programming takes you on a guided tour of software development with r from basic types and data structures to advanced topics like closures recursion and anonymous functions no statistical knowledge is required and your programming skills can range from hobbyist to pro along the way you ll learn about functional and object oriented programming running mathematical simulations and rearranging complex data into simpler more useful formats you ll also learn to create artful graphs to visualize complex data sets and functions write more efficient code using parallel r and vectorization interface r with c c and python for increased speed or functionality find new r packages for text analysis image manipulation and more squash annoying bugs with advanced debugging techniques whether

you re designing aircraft forecasting the weather or you just need to tame your data the art of r programming is your guide to harnessing the power of statistical computing

## **Learning R Programming 2016-10-28**

become an efficient data scientist with r about this book explore the r language from basic types and data structures to advanced topics learn how to tackle programming problems and explore both functional and object oriented programming techniques learn how to address the core problems of programming in r and leverage the most popular packages for common tasks who this book is for this is the perfect tutorial for anyone who is new to statistical programming and modeling anyone with basic programming and data processing skills can pick this book up to systematically learn the r programming language and crucial techniques what you will learn explore the basic functions in r and familiarize yourself with common data structures work with data in r using basic functions of statistics data mining data visualization root solving and optimization get acquainted with r s evaluation model with environments and meta programming techniques with symbol call formula and expression get to grips with object oriented programming in r including the s3 s4 rc and r6 systems access relational databases such as sqlite and non relational databases such as mongodb and redis get to know high performance computing techniques such as parallel computing and rcpp use web scraping techniques to extract information create rmarkdown an interactive app with shiny diagramr interactive charts ggvis and more in detail r is a high level functional language and one of the must know tools for data science and statistics powerful but complex r can be challenging for beginners and those unfamiliar with its unique behaviors learning r programming is the solution an easy and practical way to learn r and develop a broad and consistent understanding of the language through hands on examples you ll discover powerful r tools and r best practices that will give you a deeper understanding of working with data you ll get to grips with r s data structures and data processing techniques as well as the most popular r packages to boost your productivity from the offset start with the basics of r then dive deep into the programming techniques and paradigms to make your r code excel advance quickly to a deeper understanding of r s behavior as you learn common tasks including data analysis databases web scraping high performance computing and writing documents by the end of the book you ll be a confident r programmer adept at solving problems with the right techniques style and approach developed to make learning easy and intuitive this book comes packed with a wide variety of statistical and graphical techniques and a wealth of practical information for anyone looking to get started with this exciting and powerful language

## **R Programming: An Approach to Data Analytics 2019-06-03**

chapter 1 basics of r chapter 2 data types in r chapter 3 data preparation chapter 4 graphics using r chapter 5 statistical analysis using r chapter 6 data mining using r chapter 7 case studies huge volumes of data are being generated by many sources like commercial enterprises scientific domains and general public daily according to a recent research data production will be 44 times greater in 2020 than it was in 2010 data being a vital resource for business organizations and other domains like education health manufacturing etc its management and analysis is becoming increasingly important this data due to its volume variety and velocity often referred to as big data also includes highly unstructured data in the form of textual documents web pages graphical information and social media comments since big data is characterised by massive sample sizes high dimensionality and intrinsic heterogeneity traditional approaches to data management visualisation and analytics are no longer satisfactorily applicable there is therefore an urgent need for newer tools better frameworks and workable methodologies for such data to be appropriately categorised logically segmented efficiently analysed and securely managed this requirement has resulted in an emerging new discipline of data science that is now gaining much attention with researchers and practitioners in the field of data analytics

## **R Programming for Data Science 2012-04-19**

data science has taken the world by storm every field of study and area of business has been affected as people increasingly realize the value of the incredible quantities of data being generated but to extract value from those data one needs to be trained in the proper data science skills the r programming language has become the de facto programming language for data science its flexibility power sophistication and expressiveness have made it an invaluable tool for data scientists around the world this book is about the fundamentals of r programming you will get started with the basics of the language learn how to manipulate datasets how to write functions and how to debug and optimize code with the fundamentals provided in this book you will have a solid foundation on which to build your data science toolbox

## **Beginner's Guide for Data Analysis using R Programming 2021-12**

r programming is an efficient tool for statistical analysis of data data science has become critical to each field and the popularity of r is skyrocketing organization as large and diverse as google facebook microsoft bank of america ford motor company mozilla thomas cook the new york times the national weather service twitter anz bank uber airbnb etc have turned to r for reporting analyzing and visualization of data this book is for students and professionals of mathematics statistics physics chemistry biology social science and medicine business engineering software information technology sales bio informatics pharmacy and any one where data needs to be analyzed and represented graphically

## ***Introduction to R Programming Language 2018-09-27***

this book covers some introductory steps in using r programming language as a data science tool the data science field has evolved so much recently with incredible quantities of generated data to extract value from those data one needs to be trained in the proper data science skills like statistical analysis data cleaning data visualization and machine learning r is now considered the centerpiece language for doing all these data science skills because it has many useful packages that not only can perform all the previous skills but also has additional packages that was developed by different scientists in diverse fields these fields include but are not limited to business marketing microbiology social science geography genomics environmental science etc furthermore r is free software and can run on all major platforms windows mac os and unix linux the first two chapters involve installing and using r and rstudio rstudio is an ide integrated development environment that makes r easier to use and is more similar to spss or stata chapters 3 8 covers the different r objects and how to manipulate them including the very popular one dataframes chapter 9 is about importing different files into your r working session like text or excel files chapters 10 and 11 are dealing with different tidyverse packages that can do interesting summaries of different dataframes including different types of data visualizations in the last chapter it introduces how functions are created in r along with some control structures and useful functions in all these chapters many examples along with different codes and outputs are given to help your understanding of this powerful programming language i hope this book will be great addition to your future data analysis projects

## ***R Programming Fundamentals 2009***

study data analysis and visualization to successfully analyze data with r key features get to grips with data cleaning methods explore statistical concepts and programming in r including best practices build a data science project with real world examples book description r programming fundamentals focused on r and the r ecosystem introduces you to the tools for working with data to start with you ll understand you how to set up r and rstudio followed by exploring r packages functions data structures control flow and loops once you have grasped the basics you ll move on to studying data visualization and graphics you ll learn how to build statistical and advanced plots using the powerful ggplot2 library in addition to this you ll discover data management concepts such as factoring pivoting aggregating merging and dealing with missing values by the end of this book you ll have completed an entire data science project of your own for your portfolio or blog what you will learn use basic programming concepts of r such as loading packages arithmetic functions data structures and flow control import data to r from various formats such as csv excel and sql clean data by handling missing values and standardizing fields perform univariate and bivariate analysis using ggplot2 create statistical summary and advanced plots such as histograms scatter plots box plots and interaction plots apply data management techniques such as factoring pivoting aggregating merging and dealing with missing values on the example datasets who this book is for r programming fundamentals is for you if you are an analyst who wants to grow in the field of data science and explore the latest tools

## ***Statistics with R Programming - A Beginner's Guide (For JNTU, Kakinada) 2016-05-01***

statistics with r programming a beginner s guide

## ***An Introduction to R 2018-09-27***

this tutorial manual provides an introduction to r a software package for statistical computing and graphics this revised and updated edition is based on the april 2009 release of r version 2 9 0

## ***R 2008-07-14***

learn r programming today with this easy step by step guide do you want to learn r programming do you get overwhelmed by complicated lingo and want a guide that is easy to follow detailed and written to make the process enjoyable if so r easy r programming for beginners your step by step guide to learning r programming by felix alvaro is the book for you it covers the most essential topics you must learn to begin programming with r with more than two million global users the r language is rapidly turning into a top programming language specifically in the space of data science as well as statistics what you are going to learn in this step by step beginner s guide is how to master the fundamentals of such a gorgeous open source programming language which includes vectors data frames and lists not only is the language growing in popularity but the demand for r programmers is also rising with skilled programmers getting paid an average annual salary of 115 000 per year what separates this book from the rest what separates this book from all the others out there is the approach to teaching a lot of the books you will stumble upon simply throw information at you leaving you confused and stuck we believe that books of this nature should be easy to grasp and written in jargon free english you can understand making you feel confident and allowing you to grasp each topic with ease to help you achieve this the guide has been crafted in a step by step manner which we feel is the best way for you to learn a new subject one step at a time it also includes various images to give you assurance you are going in the right direction as well as having exercises where you can proudly practice your newly attained skills you will learn the following the history of r programming and its benefits how to install r r studio and work with code editors the fundamentals of r syntax function arguments r programming with user packages organizing data in vectors working with data frames and matrices creating lists effective coding in r controlling logical flow woking with base graphics creating faceted graphics using lattice and much more so don t delay it any longer take this opportunity and invest in this guide now you will

be amazed by the skills you will quickly attain buy this guide now see you inside

## **R Programming Fundamentals 2019-09-30**

study data analysis and visualization to successfully analyze data with r key featuresget to grips with data cleaning methodsexplore statistical concepts and programming in r including best practicesbuild a data science project with real world examplesbook description r programming fundamentals focused on r and the r ecosystem introduces you to the tools for working with data to start with you ll understand you how to set up r and rstudio followed by exploring r packages functions data structures control flow and loops once you have grasped the basics you ll move on to studying data visualization and graphics you ll learn how to build statistical and advanced plots using the powerful ggplot2 library in addition to this you ll discover data management concepts such as factoring pivoting aggregating merging and dealing with missing values by the end of this book you ll have completed an entire data science project of your own for your portfolio or blog what you will learnuse basic programming concepts of r such as loading packages arithmetic functions data structures and flow controlimport data to r from various formats such as csv excel and sqlclean data by handling missing values and standardizing fieldsperform univariate and bivariate analysis using ggplot2create statistical summary and advanced plots such as histograms scatter plots box plots and interaction plotsapply data management techniques such as factoring pivoting aggregating merging and dealing with missing values on the example datasetswho this book is for r programming fundamentals is for you if you are an analyst who wants to grow in the field of data science and explore the latest tools

## **R Programming for Bioinformatics 2016-05-31**

due to its data handling and modeling capabilities as well as its flexibility r is becoming the most widely used software in bioinformatics r programming for bioinformatics explores the programming skills needed to use this software tool for the solution of bioinformatics and computational biology problems drawing on the author s first hand exper

## **R Programming 2007**

r is a programming language and software environment for statistical analysis graphics representation and reporting if you are trying to understand the r programming language as a beginner this short book will give you enough understanding of almost all the concepts of the r language the author will guide you through examples how to program in r and how to use r for effective data analysis buy your copy now book objectivesthis book is about r programming the following are the objectives of the author to familiarize you with the basics of r programming language to help you understand the various fields where r can be applied and its use cases in each field to equip you with r programming skills both beginner and advanced skills to introduce you to r programming for data analysis to introduce you to r programming for machine learning to help you understand and appreciate the power of r in statistical computing data analysis and scientific research who this book is for anybody who is a complete beginner to r programming anybody in need of advancing their r programming skills professionals in computer programming professors lecturers or tutors who are looking to find better ways to explain r programming to their students in the simplest and easiest way students and academicians especially those focusing on r data analysis machine learning computer science and databases development requirements the author expects you to have a computer installed with an operating system such as linux windows or mac os x what is inside the book r basics r data types r variables and constants r operators decision making in r r loops r functions r classes and objects r for data science r for machine learning from the back cover r programming language is one of the most popular languages used by statisticians data analysts researchers to retrieve clean analyze visualize and present data this is a comprehensive book on how to get started with r programming why you should learn it and how you can learn it daniel bell begins by introducing the readers to the foundations of the r programming language the aim is to help you understand how the r interpreter works the origin of the name r how to set up the r programming environment etc the author has discussed the process of installing r on windows linux and mac os moreover the author has explored the basics of r programming including writing comments using the r console creating r script files etc the various features provided by r have been discussed in depth including data types variables loops decision making functions operators classes and objects etc the author has also discussed r for data science and r for machine learning the book has been organized into chapters with each chapter having many sub chapters r code scripts have been provided alongside thorough explanations of the code and images showing the expected output upon the execution of every script

## **Mastering Parallel Programming with R 2015-01-29**

master the robust features of r parallel programming to accelerate your data science computations about this book create r programs that exploit the computational capability of your cloud platforms and computers to the fullest become an expert in writing the most efficient and highest performance parallel algorithms in r get to grips with the concept of parallelism to accelerate your existing r programs who this book is for this book is for r programmers who want to step beyond its inherent single threaded and restricted memory limitations and learn how to implement highly accelerated and scalable algorithms that are a necessity for the performant processing of big data no previous knowledge of parallelism is required this book also provides for the more advanced technical programmer seeking to go beyond high level parallel frameworks what you will learn create and structure efficient load balanced parallel computation in r using r s built in parallel package deploy and utilize cloud based parallel infrastructure from r including launching a distributed computation on hadoop running on amazon



services aws get accustomed to parallel efficiency and apply simple techniques to benchmark measure speed and target improvement in your own code develop complex parallel processing algorithms with the standard message passing interface mpi using rmpi pbdmpi and sprint packages build and extend a parallel r package sprint with your own mpi based routines implement accelerated numerical functions in r utilizing the vector processing capability of your graphics processing unit gpu with opencl understand parallel programming pitfalls such as deadlock and numerical instability and the approaches to handle and avoid them build a task farm master worker spatial grid and hybrid parallel r programs in detail r is one of the most popular programming languages used in data science applying r to big data and complex analytic tasks requires the harnessing of scalable compute resources mastering parallel programming with r presents a comprehensive and practical treatise on how to build highly scalable and efficient algorithms in r it will teach you a variety of parallelization techniques from simple use of r s built in parallel package versions of lapply to high level aws cloud based hadoop and apache spark frameworks it will also teach you low level scalable parallel programming using rmpi and pbdmpi for message passing applicable to clusters and supercomputers and how to exploit thousand fold simple processor gpus through ropencl by the end of the book you will understand the factors that influence parallel efficiency including assessing code performance and implementing load balancing pitfalls to avoid including deadlock and numerical instability issues how to structure your code and data for the most appropriate type of parallelism for your problem domain and how to extract the maximum performance from your r code running on a variety of computer systems style and approach this book leads you chapter by chapter from the easy to more complex forms of parallelism the author s insights are presented through clear practical examples applied to a range of different problems with comprehensive reference information for each of the r packages employed the book can be read from start to finish or by dipping in chapter by chapter as each chapter describes a specific parallel approach and technology so can be read as a standalone

## **A First Course in Statistical Programming with R 2012-06-06**

this is the only introduction you ll need to start programming in r the open source language that is free to download and lets you adapt the source code for your own requirements co written by one of the r core development team and by an established r author this book comes with real r code that complies with the standards of the language unlike other introductory books on the ground breaking r system this book emphasizes programming including the principles that apply to most computing languages and techniques used to develop more complex projects learning the language is made easier by the frequent exercises and end of chapter reviews that help you progress confidently through the book solutions datasets and any errata will be available from the book s web site the many examples all from real applications make it particularly useful for anyone working in practical data analysis

## **R High Performance Programming 2020-05-27**

this book is for programmers and developers who want to improve the performance of their r programs by making them run faster with large data sets or who are trying to solve a pesky performance problem

## **R For Dummies 2020-07-23**

master the programming language of choice among statisticians and data analysts worldwide coming to grips with r can be tough even for seasoned statisticians and data analysts enter r for dummies the quick easy way to master all the r you ll ever need requiring no prior programming experience and packed with practical examples easy step by step exercises and sample code this extremely accessible guide is the ideal introduction to r for complete beginners it also covers many concepts that intermediate level programmers will find extremely useful master your r abcs get up to speed in no time with the basics from installing and configuring r to writing simple scripts and performing simultaneous calculations on many variables put data in its place get to know your way around lists data frames and other r data structures while learning to interact with other programs such as microsoft excel make data dance to your tune learn how to reshape and manipulate data merge data sets split and combine data perform calculations on vectors and arrays and much more visualize it learn to use r s powerful data visualization features to create beautiful and informative graphical presentations of your data get statistical find out how to do simple statistical analysis summarize your variables and conduct classic statistical tests such as t tests expand and customize r get the lowdown on how to find install and make the most of add on packages created by the global r community for a wide variety of purposes open the book and find help downloading installing and configuring r tips for getting data in and out of r ways to use data frames and lists to organize data how to manipulate and process data advice on fitting regression models and anova helpful hints for working with graphics how to code in r what r mailing lists and forums can do for you

## **Practical Machine Learning in R 2012-05-24**

guides professionals and students through the rapidly growing field of machine learning with hands on examples in the popular r programming language machine learning a branch of artificial intelligence ai which enables computers to improve their results and learn new approaches without explicit instructions allows organizations to reveal patterns in their data and incorporate predictive analytics into their decision making process practical machine learning in r provides a hands on approach to solving business problems with intelligent self learning computer algorithms bestselling author and data analytics experts fred nwanganga and mike chapple explain what machine learning is demonstrate its organizational benefits and provide hands on examples created in the r programming language a perfect guide for professional self taught learners or students in an introductory machine

learning course this reader friendly book illustrates the numerous real world business uses of machine learning approaches clear and detailed chapters cover data wrangling r programming with the popular rstudio tool classification and regression techniques performance evaluation and more explores data management techniques including data collection exploration and dimensionality reduction covers unsupervised learning where readers identify and summarize patterns using approaches such as apriori eclat and clustering describes the principles behind the nearest neighbor decision tree and naive bayes classification techniques explains how to evaluate and choose the right model as well as how to improve model performance using ensemble methods such as random forest and xgboost practical machine learning in r is a must have guide for business analysts data scientists and other professionals interested in leveraging the power of ai to solve business problems as well as students and independent learners seeking to enter the field

## ***R Programming 2017-12-19***

data science is an exciting discipline that allows you to turn raw data into understanding insight and knowledge the goal of r for data science is to help you learn the most important tools in r that will allow you to do data science after reading this book you ll have the tools to tackle a wide variety of data science challenges using the best parts of r this book will teach you how to program in r you ll go from loading data to writing your own functions which will outperform the functions of other r users this is an understandable approach to learning r visualizing and modeling data are complicated skills that require a programmer s full attention it takes expertise judgement and focus to extract reliable insights from a data set this book proudly focuses on small in memory datasets this is the right place to start because you can t tackle big data unless you have experience with small data i think r is a great place to start your data science journey because it is an environment designed from the ground up to support data science r is not just a programming language but it is also an interactive environment for doing data science simply in depth

## ***Beginning R 2018-12-10***

conquer the complexities of this open source statistical language r is fast becoming the de facto standard for statistical computing and analysis in science business engineering and related fields this book examines this complex language using simple statistical examples showing how r operates in a user friendly context both students and workers in fields that require extensive statistical analysis will find this book helpful as they learn to use r for simple summary statistics hypothesis testing creating graphs regression and much more it covers formula notation complex statistics manipulating data and extracting components and rudimentary programming r the open source statistical language increasingly used to handle statistics and produces publication quality graphs is notoriously complex this book makes r easier to understand through the use of simple statistical examples teaching the necessary elements in the context in which r is actually used covers getting started with r and using it for simple summary statistics hypothesis testing and graphs shows how to use r for formula notation complex statistics manipulating data extracting components and regression provides beginning programming instruction for those who want to write their own scripts beginning r offers anyone who needs to perform statistical analysis the information necessary to use r with confidence

## ***Extending R 2015-03***

up to date guidance from one of the foremost members of the r core team written by john m chambers the leading developer of the original s software extending r covers key concepts and techniques in r to support analysis and research projects it presents the core ideas of r provides programming guidance for projects of all scales and introduces new valuable techniques that extend r the book first describes the fundamental characteristics and background of r giving readers a foundation for the remainder of the text it next discusses topics relevant to programming with r including the apparatus that supports extensions the book then extends r s data structures through object oriented programming which is the key technique for coping with complexity the book also incorporates a new structure for interfaces applicable to a variety of languages a reflection of what r is today this guide explains how to design and organize extensions to r by correctly using objects functions and interfaces it enables current and future users to add their own contributions and packages to r a 2017 choice outstanding academic title

## ***Beyond Spreadsheets with R 2017-03-09***

summary beyond spreadsheets with r shows you how to take raw data and transform it for use in computations tables graphs and more you ll build on simple programming techniques like loops and conditionals to create your own custom functions you ll come away with a toolkit of strategies for analyzing and visualizing data of all sorts using r and rstudio purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology spreadsheets are powerful tools for many tasks but if you need to interpret interrogate and present data they can feel like the wrong tools for the task that s when r programming is the way to go the r programming language provides a comfortable environment to properly handle all types of data and within the open source rstudio development suite you have at your fingertips easy to use ways to simplify complex manipulations and create reproducible processes for analysis and reporting about the book with beyond spreadsheets with r you ll learn how to go from raw data to meaningful insights using r and rstudio each carefully crafted chapter covers a unique way to wrangle data from understanding individual values to interacting with complex collections of data including data you scrape from the web you ll build on simple programming techniques like

loops and conditionals to create your own custom functions you ll come away with a toolkit of strategies for analyzing and visualizing data of all sorts what s inside how to start programming with r and rstudio understanding and implementing important r structures and operators installing and working with r packages tidying refining and plotting your data about the reader if you re comfortable writing formulas in excel you re ready for this book about the author dr jonathan carroll is a data science consultant providing r programming services he holds a phd in theoretical physics table of contents introducing data and the r language getting to know r data types making new data values understanding the tools you ll use functions combining data values selecting data values doing things with lots of data doing things conditionally control structures visualizing data plotting doing more with your data with extensions

## **RStudio** **R**

  

## **Beginning Data Science in R**

discover best practices for data analysis and software development in r and start on the path to becoming a fully fledged data scientist this book teaches you techniques for both data manipulation and visualization and shows you the best way for developing new software packages for r beginning data science in r details how data science is a combination of statistics computational science and machine learning you ll see how to efficiently structure and mine data to extract useful patterns and build mathematical models this requires computational methods and programming and r is an ideal programming language for this this book is based on a number of lecture notes for classes the author has taught on data science and statistical programming using the r programming language modern data analysis requires computational skills and usually a minimum of programming what you will learn perform data science and analytics using statistics and the r programming language visualize and explore data including working with large data sets found in big data build an r package test and check your code practice version control profile and optimize your code who this book is for those with some data science or analytics background but not necessarily experience with the r programming language

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